



Adenine sulfate PRODUCT DATA SHEET

issue date 09/22/2017

Product Name:	Adenine sulfate
Product Number:	A026
CAS Number:	321-30-2
Molecular Formula:	$C_5H_5N_5 \cdot 1/2(H_2SO_4)$
Molecular Weight:	184.17
Form:	Powder
Appearance:	White powder
Storage Conditions:	2-8°C
Description:	Adenine sulfate is a sparingly soluble (1 mg/mL) purine nucleobase involved in a wide variety of cellular processes and comprises one of the five nitrogenous bases involved in nucleic acid synthesis. In addition, adenine serves as the purine base in adenosine triphosphate (ATP), a major unit of energy involved in cellular metabolism. Adenine also plays a role in cellular metabolism as a component to nicotinamide adenine dinucleotide (NAD), and flavin adenine dinucleotide (FAD).
Plant Biology Applications	Adenine sulfate is commonly used as a tissue culture media supplement to serve as a cytokinin biosynthesis precursor (Sakakibare, 2006). In one experiment by Jana and Shekhawat, adenine sulfate demonstrated promotion of shoot formation in dill plant models using a concentration of 5.0 mg/mL.
References:	Berg, J. M. <i>NAD⁺, FAD, and Coenzyme A Are Formed from ATP</i> . 5th ed. New York: W.H. Freeman, 2002. Print.

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